Amendment to the Claims

- 1. (Currently Amended) A light distribution control type illuminator, comprising:
 - a light source for radiating light through electric discharge between opposing electrodes;
- a reflecting mirror for reflecting a flux of light that is radiated from the light source in order to control the angle of the flux of light; and
- a path changing mirror for changing the path of the flux of light whose divergence has been controlled by the reflecting mirror,

the light source being placed in a manner that makes an axis line connecting the electrodes of the light source, or other reference lines used to specify a posture of the light source, substantially coincide with a center line of the flux of light controlled by the reflecting mirror, the path changing mirror redirecting the controlled flux of light to a desired direction around the center line of the controlled flux of light;

a casing for housing the light source and the reflecting mirror which controls the angle of a flux of light emitted from the light source; and source;

a path changing mirror container set on a controlled light flux path side of the casing to house the path changing mirror, the path changing mirror container being attached to the easing in a manner that allows the path changing mirror container to rotate about a travel direction axis line of the controlled flux of light; and

a holding means for holding the casing in a desired position in relation to a vertical axis line,

wherein the path changing mirror is a light reflector shaped like a flat plate or a curved

plate and having, on at least one side, ridges that are shaped like an arc, an elliptical arc, or a sine curve in section and that are arranged side by side in contact with one another, the light reflector having a reflecting face and a transparent body portion on the reflecting face, the transparent body portion being composed of the ridges, or a flat or curved structure in which surfaces of the ridges have a light reflecting function.

2-3. (Cancelled)

4. (Previously Presented) The light distribution control type illuminator according to claim 1 wherein the light source is a metal halide lamp or a low pressure sodium lamp.

| 3. (Currently Amended) A right distribution control type infurmation, comprising. |
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| a light source for radiating light through electric discharge between opposing electrodes; |
| a reflecting mirror for reflecting a flux of light that is radiated from the light source in |
| order to control the angle of the flux of light; and |
| a path changing mirror for changing the path of the flux of light whose divergence has |
| been controlled by the reflecting mirror, |
| the light source being placed in a manner that makes an axis line connecting the |
| electrodes of the light source, or other reference lines used to specify a posture of the light |
| source, substantially coincide with a center line of the flux of light controlled by the reflecting |
| mirror, the path changing mirror redirecting the controlled flux of light to a desired direction |

| around the center line of the controlled flux of light; |
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| a casing for housing the light source and the reflecting mirror which controls the angle of |
| a flux of light emitted from the light source; and |
| a path changing mirror container set on a controlled light flux path side of the casing to |
| house the path changing mirror, the path changing mirror container being attached to the casing |
| in a manner that allows the path changing mirror container to rotate about a travel direction axis |
| line of the controlled flux of light; and |
| The light distribution control type illuminator according to claim 1,wherein the path |
| changing mirror is a light reflector shaped like a flat plate or a curved plate and having, on at |
| least one side, ridges that are shaped like an arc, an elliptical arc, or a sine curve in section and |
| that are arranged side by side in contact with one another, the light reflector having a reflecting |
| face and a transparent body portion on the reflecting face, the transparent body portion being |
| composed of the ridges, or a flat or curved structure in which surfaces of the ridges have a light |
| reflecting function. |
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| 6. (Cancelled) |
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| 7. (Currently Amended) The light distribution control type illuminator according to elaim- |
| 3claim 5, wherein the light source is a metal halide lamp or a low pressure sodium lamp. |

8-9. (Cancelled)